

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): Bi-directional telescope for a laser on air telecommunication system, the telescope comprising:

a primary optical surface, comprising at least one illuminated area and a reflecting optical surface;

at least one transmitting device forming at least one transmitting beam impinging against the primary optical surface at the at least one illuminated area , the at least one transmitting beam having a corresponding axis; and

a receiving device collecting the power deflected by the reflecting optical surface of the primary optical surface into a receiving beam, the receiving beam having an axis;

wherein the reflecting optical surface of the primary optical surface is larger than the at least one illuminated area, and the transmitting beam axis incident to the primary optical surface does not coincide with the receiving beam axis (14) incident to the primary optical surface.

2. (previously presented): Telescope according to claim 1, further comprising a secondary optical surface, wherein the received power deflected by the reflecting optical surface of the primary optical surface is focused by the secondary optical surface into the receiving beam.

3. (previously presented): Telescope according to claim 1, wherein said primary optical surface comprises a hole.

4. (previously presented): Telescope according to claim 2, wherein said at least one transmitting device is placed fundamentally in front of the reflecting optical surface, behind the secondary optical surface and in that the secondary optical surface comprises a hole through which passes at least a portion of the transmitted beam that impinges on the primary optical surface.

5. (currently amended): Telescope according to claim 1, wherein said at least one transmitting device is placed fundamentally behind the reflecting optical surface, and wherein said telescope further comprises means for deflecting the transmitting beam towards the a secondary optical surface.

6. (previously presented): Method for receiving-transmitting an optical signal through a bi-directional telescope for a laser on air telecommunication system, the method comprising:

providing a primary optical surface comprising at least one illuminated area and a reflecting optical surface;

providing at least one transmitting device forming at least one transmitting beam impinging against the primary optical surface at the at least one illuminated area, the at least one transmitting beam having a corresponding axis;

providing a receiving device collecting the power deflected by the reflecting optical surface of the primary optical surface into a receiving beam, the receiving beam having an axis:

wherin the reflecting optical surface is larger than the at least one illuminated area, and the transmitting beam axis incident to the primary optical surface does not coincide with the receiving beam axis incident to the primary optical surface.

7. (previously presented): Method according to claim 6, further comprising the step of providing a secondary optical surface, wherein the received power deflected by the reflecting optical surface of the primary optical surface is focused by the secondary optical surface into the receiving beam.

8. (previously presented): Method according to claim 6, further comprising the step of making a hole in said primary optical surface.

9. (previously presented): Method according to claim 7, further comprising placing said at least one transmitting device fundamentally in front of the reflecting optical surface, behind the secondary optical surface and making at least one hole in the secondary optical

surface through which passes at least a portion of the transmitted beam that impinges on the primary optical surface.

10. (previously presented): Method according to claim 7, further comprising placing said at least one transmitting device fundamentally behind the reflecting optical surface and by providing means for deflecting the transmitting beam towards the secondary optical surface.

11. (previously presented): The telescope according to claim 1, wherein the at least one illuminated area overlaps the reflecting optical surface.

12. (previously presented): The method according to claim 6, wherein the at least one illuminated area overlaps the reflecting optical surface.

13. (previously presented): The telescope according to claim 1, wherein the axis of the transmitting beam is located at the center of the transmission beam impinging on said optical face, and wherein the axis of the receiving beam is located at the center of the receiving beam deflected from the reflecting optical surface.

14. (previously presented): The method according to claim 6, wherein the axis of the transmitting beam is located at the center of the transmission beam, and wherein the axis of the receiving beam is located at the center of the receiving beam.

15. (new): The telescope according to claim 1, wherein the receiving device is disposed fundamentally behind the primary optical surface.

16. (new): The telescope according to claim 15, wherein the receiving beam passes through a hole in the primary optical surface.

17. (new): The method according to claim 6, wherein the receiving device is disposed fundamentally behind the primary optical surface.

18. (new): The method according to claim 17, wherein the receiving beam passes through a hole in the primary optical surface.

19. (new): The telescope according to claim 1, wherein a center of said illuminated area is shifted from a center of said primary optical surface.

20. (new): The method according to claim 6, wherein a center of said illuminated area is shifted from a center of said primary optical surface.